

RAYTHEON COMPANY

EXECUTIVE OFFICES

> TEL: 617-862-6600 CABLE: RAYTHEONEX TELEX: 92-3455

141 SPRING STREET LEXINGTON, MA 02173

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THE COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D. C. 20231

RE: New Application - Case No. 31374

Title: Dual Channel Delay Sensing Circuit

Inventor: Arent H. Kits van Heyningen

GROUP

"ICENSING & REVIEW

Sir:

The following United States Patents deal with sonar systems generally, and disclose sonar transducers and the processing of signals obtained from the transducers. These patents are:

Patent No. 3,404,56073 (105) 3,686,658340/261 3,723,953340(3 8 3,747,053340/38 3,763,465 3,922,634

Inventor Kau1e Wilt Scheer Austin Tatge Warner

Tatge and Warner are representative of the foregoing art and more closely resemble the system of the invention; copies of Tatge and Warner are enclosed. Tatge shows, in This Figure 2, a sonar transducer array with correlation of signals from various parts of his array. However, he does not show the comparison of a temporal relationship between the leading and trailing edges of two signals of the instant invention. Warner shows, in his Figure 1 a dual channel hydrophone system and a coincidence detector (item 32), but fails to show the comparison of a temporal relationship between the leading and trailing edges of two signals of the instant invention. Accordingly, the claims of this application are believed to be allowable over the foregoing art.

Respectfully submitted,

Dand he Crang

David M. Warren, Reg. No. 25,520

Attorney for the Applicant

DMW: df Enclosures